Express Mail: ET161056010US

Inventors: Albrecht, et al.

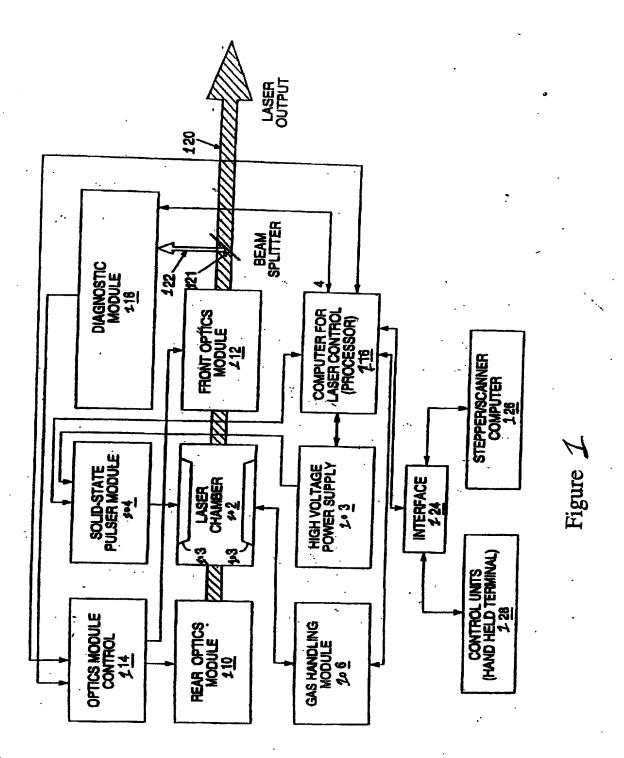
Docket No.: LMPY-12910 (273/U) Attorney: Andrew V. Smith

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Filed: July 10, 2001

Title: Precise Monitor Etalon Calibration Technique

Attorney: Andrew V. Smith Sierra Patent Group, Ltd.



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9 on S 38

Scheme of the laser system including the apparatus and processing for absolute wavelength calibration

20 narrow-band output beam 36. gaseous element motor drive for wavelength shift wavelength monitoring display for wavelength peam splitters 44 40 \$ wavelength calibration tool containing absorbing element
\$ s'signal processing and driving source for \$1.5 c=0
6 main processing and data recording 3,4,6,8 laser chamber, Pisson, 305 houlless, power eyels

22,220 106 line narrowing and tuning block

resonator mirror

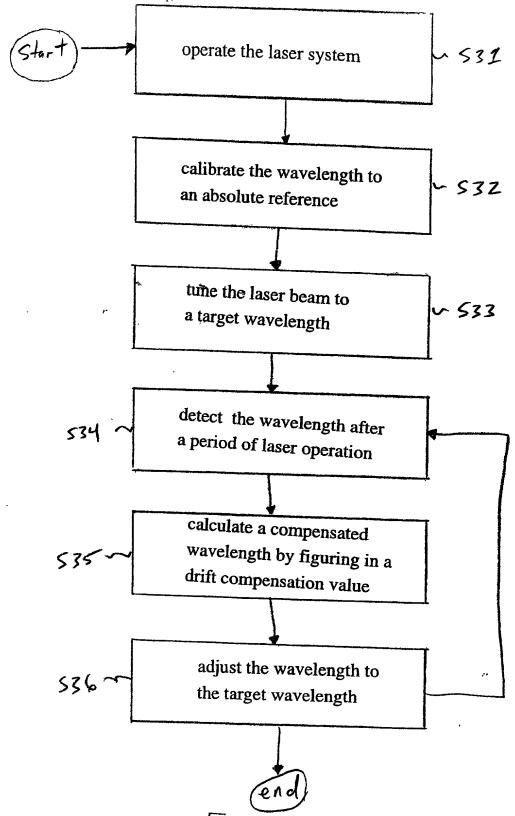
FIG.

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operate the laser system 541 calibrate the wavelength to 542 an absolute reference measure and transmit ~ 543 wavelength information retrieve drift compensation value corresponding to current laser operating condition calculate actual wavelength based on measured wavelength and retrieved drift compensation value adjust the wavelength to.

the target wavelength

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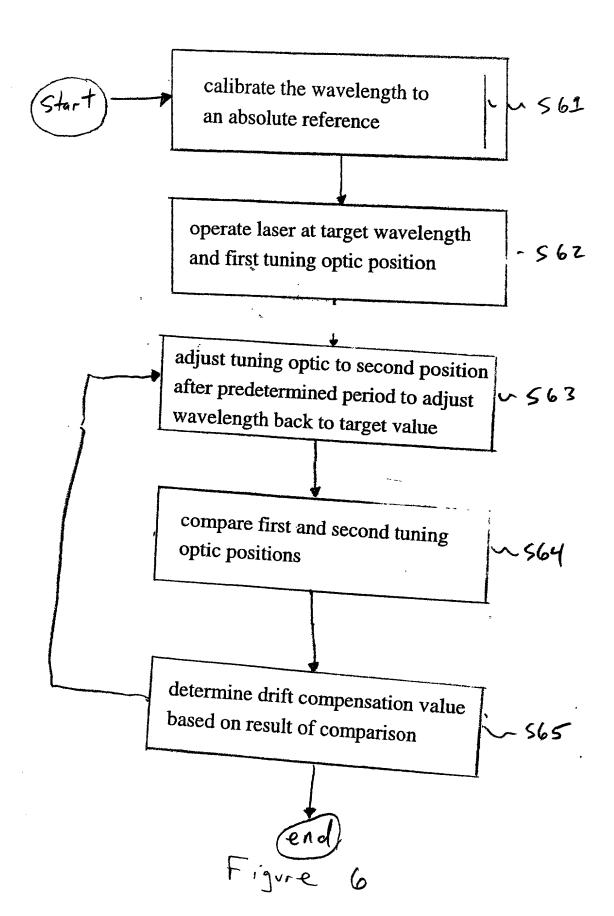
operate the laser system 551 calibrate the wavelength to - 552 an absolute reference 1553 measure and transmit wavelength information compare measured wavelength versus actual wavelength

determine drift compensation value

based on result of comparison

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